

Title (en)

AC POWER ADAPTER AND POWER DISTRIBUTION SYSTEM EMPLOYING SAME

Title (de)

WECHSELSTROMADAPTER UND STROMVERTEILUNGSSYSTEM MIT DIESEM ADAPTER

Title (fr)

ADAPTATEUR DE COURANT ALTERNATIF ET SYSTÈME DE DISTRIBUTION DE PUISSANCE L'EMPLOYANT

Publication

EP 3454632 A1 20190313 (EN)

Application

EP 18191489 A 20180829

Priority

- US 201762553188 P 20170901
- CN 201711229424 A 20171129

Abstract (en)

The present disclosure provides an AC power adapter (1) comprising plural connectors (11), plural first power conveying wires (12), a junction box (13), a power conveying wire assembly (14) and a plug (15). The first power conveying wire (12) is connected with the connector (11) and comprises an input neutral wire (121), an input live wire (122) and an input ground wire (123). The first power conveying wire (12) is inserted into the junction box (13). The power conveying wire assembly (14) is inserted into the junction box (13) and comprises plural output neutral wires (141), plural output live wires (142) and an output ground wire (143). The output neutral wires (141) are connected with the input neutral wires (121) one-to-one, the output live wires (142) are connected with the input live wires (122) one-to-one, and the output ground wire (143) is connected with the input ground wires (123). The plug (15) comprises a housing (151) and an electrical connector (152). The power conveying wire assembly (14) is inserted into the housing (151) and connected with the electrical connector (152).

IPC 8 full level

H05K 7/14 (2006.01)

CPC (source: CN EP US)

G06F 1/189 (2013.01 - EP US); **G06F 1/263** (2013.01 - CN); **H01R 9/24** (2013.01 - US); **H01R 13/02** (2013.01 - CN); **H01R 13/46** (2013.01 - CN); **H01R 13/502** (2013.01 - CN); **H01R 25/00** (2013.01 - CN); **H01R 31/06** (2013.01 - CN); **H01R 33/94** (2013.01 - US); **H02B 1/20** (2013.01 - US); **H02B 1/48** (2013.01 - US); **H02B 1/56** (2013.01 - US); **H02G 5/025** (2013.01 - US); **H02J 3/06** (2013.01 - US); **H05K 7/1492** (2013.01 - EP US)

Citation (search report)

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- [IJ] US 2011136353 A1 20110609 - SPITAEELS JAMES S [US], et al
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EP4009754A1; US11681338B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3454632 A1 20190313; EP 3849292 A1 20210714; US 11217971 B2 20220104; US 2020358265 A1 20201112

DOCDB simple family (application)

EP 18191489 A 20180829; EP 21154964 A 20180829; US 202016941915 A 20200729